

AEGIS Microbe Shield®

**CLAIMS & SUBSTANTIATIONS
CUSTOMER TESTIMONIALS
SAMPLING OF CUSTOMER ROSTER**

CLAIMS AND SUBSTANTIATIONS

All products that are Health Canada registered must have product labels that are reviewed and approved by Health Canada. This means that all claims on the labels are reviewed, approved and accepted by Health Canada. When AEGIS Canada presents its label as a form of substantiation, we are doing so with the knowledge that Health Canada is a third party and is able to validate all claims made on our labels.

The MSDS is a legal document and was presented to Health Canada as part of the documentation for product registration. All MSDS documents for AEGIS Canada products are available upon request.

AEGIS: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party scientific sources

AEGIS Microbe Shield® is a powerful cleaner, disinfectant and deodorizer. The following are claims that are substantiated by AEGIS Canada Health Canada registration:

- Health Canada Registered: Registration number PMRA PCP# 15133
- Disinfectant, Cleaner, Deodorizer.
- Eliminates Odors.
- Virucide, Tuberculocidal, Mildewstat, Fungicide.
- Meets the OSHA Blood borne pathogen standard for HIV, HBV, HCV
- Can be used on any hard, non-porous surface.
- Important in controlling the hazard of cross contamination.
- Effective against bacteria, mold, fungi, viruses and other illness-causing microbes.
- Will not leave behind grit or soap scum.
- Recommended for use against H1N1.
- Cuts grease and grime.
- Recommended for use in the following areas: home, hospitals, nursing homes, patient rooms, operating rooms, ICU areas, shower rooms, locker rooms, public restrooms, schools, food processing plants, food service establishments, restaurants, commercial kitchens, office buildings, lodging establishments, retail businesses and athletic/recreational facilities.

Effective Against

99.9% OF GERMS AND BACTERIA
STAPHYLOCOCCUS AUREUS
ESCHERICHIA COLI
COMMUNITY ASSOCIATED MRSA
SARS
HEPATITIS
RHINOVIRUS
HBV
HIV
POLIOVIRUS TYPE 1

H1N1
SALMONELLA CHOLERAESUIS
STREPTOCOCCUS PYOGENES
HEALTHCARE ASSOCIATED MRSA
AVIAN INFLUENZA
MUMPS
ROTOVIRUS
HCV
CANINE PARVOVIRUS
.....AND MANY MORE

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Inhibits the growth of bacteria, mold and fungi on treated surfaces for extended periods.

SUBSTANTIATION

"The initial reduction of airborne microorganisms and the sustained control of microbial levels during the 30 months of this study are unprecedented," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

REFERENCE

Kemper, R.A. L. Ayers, C. Jacobson, C. Smith, and W.C. White.
Improved Control of Microbial Exposure Hazards in Hospitals: A 30 Month Field Study.
Page 2. Tech. Print

CLAIM

Eliminates problems caused by odor-causing bacteria on treated surfaces

SUBSTANTIATION

"Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae," taken from the AEGIS. All claims on the AEGIS label have been tested and approved by Health Canada.

REFERENCE

Health Canada Registration Number PMRA PCP# 15133

CLAIM

Environmentally friendly antimicrobial coating

SUBSTANTIATION

"Environmentally friendly coatings" is a term used in any coating considered to inflict minimal or no harm on the environment. "The permanent attachment of the antimicrobial to the surface molecule also minimizes the environmental risks associated with conventional antimicrobial usage," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

AEGIS Microbe Shield® is formulated using the AEGIS antimicrobial active.

REFERENCE

Kemper, R.A. L. Ayers, C. Jacobson, C. Smith, and W.C. White.
Improved Control of Microbial Exposure Hazards in Hospitals: A 30 Month Field Study.
Page 2. Tech. Print

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Non-Leaching antimicrobial. Creates an antimicrobial coating which is non-toxic.

SUBSTANTIATION

"Since the antimicrobial remains chemically bounded to the surface molecules, there is a low potential for irritational, toxic, or other human exposure consequences. The permanent attachment of the antimicrobial to the surface molecule also minimizes the environmental risk associated with conventional antimicrobial usage," taken from *Improved Control of Microbial Exposure Hazards in Hospitals* white paper.

"This treatment offers the unique advantages of minimizing the chance for toxicological interacting when in contact with the skin," taken from *Evaluation of Skin Bacterial Flora*.

AEGIS is formulated using the AEGIS antimicrobial active.

REFERENCE

Kemper, R.A. L. Ayers, C. Jacobson, C. Smith, and W.C. White.

Improved Control of Microbial Exposure Hazards in Hospitals: A 30 Month Field Study.

Page 2. Tech. Print

White, W. Curtis, Triplett, Benny L. *Evaluation of Effects on Elevated Levels of Normal Skin Bacterial Flora with Fabrics Treated with 3-Propyldimethyloctadecyl Ammonium Chloride.* Page 4. Tech. Print

CLAIM

Prevents staining and deterioration caused by bacteria, mold and fungi

SUBSTANTIATION

"AEGIS Antimicrobial is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent," taken from the AEGIS label. All claims on the AEGIS label have been tested and approved by Health Canada.

REFERENCE

Health Canada Registration Number PMRA PCP# 15133

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Won't rub off or mitigate onto skin.

SUBSTANTIATION

"Since the antimicrobial remains chemically bounded to the surface molecules, there is a low potential for irritational, toxic, or other human exposure consequences. The permanent attachment of the antimicrobial to the surface molecule also minimizes the environmental risks associated with the conventional antimicrobial usage," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

"The test fabrics in this study showed the ability to reduce elevated populations of natural skin flora (in vivo) when the organisms were associated with the fabrics yet they did not affect the organisms on the skin," taken from *Evaluation of Skin Bacterial Flora*.

AEGIS Microbe Shield® is formulated using the AEGIS antimicrobial active.

REFERENCE

Kemper, R.A. L. Ayers, C. Jacobson, C. Smith, and W.C. White.

Improved Control of Microbial Exposure Hazards in Hospitals: A 30 Month Field Study.

Page 2. Tech. Print

White, W. Curtis, Triplett, Benny L.

Evaluation of Effects on Elevated Levels of Normal Skin Bacterial Flora with Fabrics Treated with 3-Propyldimethyloctadecyl Ammonium Chloride. Page 4. Tech. Print.

CLAIM

Trusted Antimicrobial Technology. Proven.

SUBSTANTIATION

Customer Roster and Testimonials.

The technology powering AEGIS Microbe Shield® antimicrobials has been used for more than 30 years in consumer and medical applications. AEGIS, and all AEGIS Canada antimicrobials, are formulated using the AEGIS antimicrobial active. A wide assortment of white papers and medical studies are available that prove the effectiveness and quality of AEGIS Canada's antimicrobials.

REFERENCE

Refer to AEGIS Canada Customer Roster and Testimonials Listings.

AEGIS Environments is the supplier of AEGIS Canada antimicrobial technology.

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Hypoallergenic.

SUBSTANTIATION

"Skin irritation and sensitization tests show that no untoward effects are observed from the neat chemical or from the fabrics treated with the chemical," taken from *Evaluation of Skin Bacterial Flora*.

REFERENCE

White, W. Curtis, Triplett, Benny L.

Evaluation of Effects on Elevated Levels of Normal Skin Bacterial Flora with Fabrics Treated with 3-Propyldimethyloctadecyl Ammonium Chloride. Page 4. Tech. Print.

CLAIM

Durable. Invisible, odorless, will not affect the performance of the equipment.

SUBSTANTIATION

"Durable" is commonly used in the AEGIS Antimicrobial active. All claims on the AEGIS Canada label have been tested and approved by Health Canada.

Years of applying the antimicrobial has proven that the solution is invisible and odorless when applied and it will not affect the performance of equipment.

REFERENCE

Health Canada Registration Number PMRA PCP# 15133

Customer Roster

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Administers and provides long lasting defense against microbes that works 24/7.

SUBSTANTIAION

"The destruction of airborne microorganisms upon contact with antimicrobial surfaces would further reduce human exposure potential, producing an environment with lowered risk of allergenic, infective, or toxigenic consequences for building occupants," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

AEGIS Microbe Shield s formulated using the AEGIS antimicrobial active.

"The initial reduction of airborne microorganisms and the sustained control of microbial levels during the 30 months of this study are unprecedented," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

REFERENCE

Kemper, R.A. L. Ayers, C. Jacobson, C. Smith, and W.C. White.

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Page 2. Tech. Print

Health Canada Registration Number PMRA PCP# 15133

CLAIM

A treated surface is protected against microbial growth. Applying AEGIS Antimicrobial will minimize and control microbial contamination. Imparts microbe control that helps to mitigate risk.

SUBSTANTIATION

"..Were able to demonstrate the antibacterial, antifungal, antiviral, antialgal, and anti-protozoal activity of this surface bonded agent against a broad spectrum of microorganisms, even after repeated washings," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

AEGIS is formulated using the AEGIS antimicrobial active.

"The initial reduction of airborne microorganisms and the sustained control of microbial levels during the 30 months of this study are unprecedented," taken from *Improved Control of Microbial Exposure in Hospitals* white paper.

"AEGIS Antimicrobial is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi, (mold and mildew) and algae as a static agent," taken from the AEGIS label. All claims on the AEGIS label have been tested and approved by Health Canada.

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Health Canada Registration Number PMRA PCP# 15133

CLAIMS AND SUBSTANTIATIONS continued

AEGIS Antimicrobial: Claims and Substantiations

A listing of AEGIS Microbe Shield® product claims, supported by third party sources

CLAIM

Antimicrobial utilizes a physical, not chemical, mode of action.

SUBSTANTIATION

"It does not poison the microorganism. When a microbe contacts the organofunctional silane treated surface of the fabric, the cell is physically ruptured by a sword-like action and then electrocuted by a positively charged nitrogen molecule," taken from *Microbial Problems Associated with Carpeting* white paper.

REFERENCE

Soens, Hugo, Monticello, Robert. *Microbiological Problems Associated with Carpeting*. Page 9. Tech. Print